Amendments to the Claims

This listing of claims will replace all prior versions, and listing of claims in the application:

Listing of Claims

- 1. (Original) A process for the manufacture of seed crystals of a molecular sieve, which comprises synthesizing the molecular sieve by treatment of an appropriate synthesis mixture, separating from the treated synthesis mixture a crystalline molecular sieve comprising particles of a first, larger, particle size in admixture with particles of a second, smaller, size suitable for use as seed crystals, treating the crystalline molecular sieve to separate the larger particles from the smaller particles, and recovering the smaller particles.
- 2. (Original) A process as claimed in claim 1, wherein separation is effected by dividing the treated synthesis mixture into a liquid component and a crystalline solid component, washing the solid component at least once using a washing medium, and recovering a used washing medium containing the second, smaller size, particles.
- 3. (Original) A process as claimed in claim 2, wherein separation is effected by decanting.
- 4. (Original) A process as claimed in claim 2, wherein separation is effected by centrifuging.
- 5. (Original) A process as claimed in claim 2, wherein separation is effected by filtering.
- 6. (Original) A process as claimed in claim 2, wherein the solid component is washed a plurality of times until the used washing medium becomes hazy, and the hazy washing medium is recovered.

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- 7. (Original) A process as claimed in claim 1, wherein the second, smaller size, particles have a dimension in the range 20 to 400 nm.
- 8. (Original) A process as claimed in claim 1, wherein the molecular sieve is of structure type LEV, FER, TON, MFS, MFI, or MOR.
- 9. (Original) A process as claimed in claim 1, wherein the molecular sieve is a zeolite.
- 10. (Original) A process as claimed in claim 9, wherein the zeolite is selected from the group consisting of ZSM-22, ZSM-38, ZSM-45, ZSM-57, NU-3, and Mordenite.
- 11. (Currently Amended) A process for the manufacture of a crystalline molecular sieve by treatment of a synthesis mixture appropriate for the formation of that molecular sieve, wherein the mixture contains as seeds separated smaller particles [obtainable by the process of] prepared in accordance with claim 1.
- 12. (Original) A process as claimed in claim 11, wherein the concentration of seeds in the synthesis mixture is up to 10000 parts per million, based on the total weight of synthesis mixture.
- 13. (Original) A process as claimed in claim 12, wherein the concentration is within the range of 50 to 2000 parts per million.
- 14. (Previously Presented) In the synthesis of a crystalline molecular sieve by hydrothermal treatment of a synthesis mixture, the improvement comprising

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including in said synthesis mixture the seed crystals obtained by the process of claim 1 to accelerate the rate of production of the crystalline molecular sieve.

- 15. (Previously Presented) In the synthesis of a crystalline molecular sieve by hydrothermal treatment of a synthesis mixture, the improvement comprising including in said synthesis mixture the seed crystals obtained by the process of claim 1 to control a characteristic of the resulting crystalline molecular sieve.
- 16. (Original) A process as claimed in claim 15, wherein the characteristic is the purity, the phase purity, the particle shape, the particle size, or the particle size distribution.
- 17. (Previously Presented) In the synthesis of a crystalline molecular sieve by hydrothermal treatment of a synthesis mixture, the improvement comprising including in said synthesis mixture the seed crystals obtained by the process of claim 1 to facilitate the manufacture of a crystalline molecular sieve in a synthesis mixture substantially free from organic structure-directing agent.
- 18. (Previously Presented) In the synthesis of a crystalline molecular sieve by hydrothermal treatment of a synthesis mixture, the improvement comprising including in said synthesis mixture the seed crystals obtained by the process of claim 1 to facilitate the manufacture of a crystalline molecular sieve, without stirring the synthesis mixture at least after the desired synthesis temperature has been reached.
- 19. (Currently Amended) The crystalline molecular sieve of a size suitable for use as seeds, [the product of] prepared by the process of claim 8 [1].

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- 20. (Currently Amended) The crystalline molecular sieve product <u>prepared by the</u> [of the] process of claim 11, said crystalline molecular sieve product being selected from the group consisting of LEV, FER, TON, MFS, MFI, or MOR.
- 21. (Original) The crystalline molecular sieve as claimed in claim 20, which is in a chemical form suitable for use as a catalyst or a separation or absorption medium.
- 22. (Original) A process for hydrocarbon conversion, separation, or adsorption, which is carried out in the presence of the product claimed in claim 21.
- 23. (Currently Amended) A process of oxygenate conversion, which is carried out in the presence of the <u>crystalline molecular sieve</u> product as claimed in claim 11, said <u>crystalline molecular sieve</u> product being and selected from the group consisting of LEV, FER, TON, MFS, MFI, or MOR.
- 24. (Cancelled)